

CLAIMS

1. A packaging material for paper containers comprising at least constitution layers of a thermoplastic material outermost layer, a paper substrate layer, a barrier layer, and a thermoplastic material innermost layer and consisting the constitution layers laminated in above order, characterized in that the thermoplastic material innermost layer contains at least a linear low density polyethylene which has a narrow molecular weight distribution and has the properties parameter of an average density of 0.900-0.915, 88-103-degree C of a peak melting point, a melt flow index of 5-20, a swelling ratio (SR) of 1.4-1.6, and 20-50-micrometer of a layer thickness.
2. A packaging material for paper containers according to Claim 1, wherein the thermoplastic material outermost layer contains at least a linear low density polyethylene which has a narrow molecular weight distribution, and has properties parameter of an average density of 0.900-0.925, 88-103-degree C of a peak melting point, a melt flow index of 5-20, a swelling ratio (SR) of 1.4-1.6, and 10-25 micrometer of a layer thickness.
3. A packaging material for paper containers according to Claim 1 wherein the adhesives layer between the barrier layer and the thermoplastic material innermost layer contains at least a linear low density polyethylene which has a narrow molecular weight distribution, and has properties parameters of an average density of 0.900-0.915, 88-103-degree C of a peak melting point, a melt flow index of 5-20, a swelling ratio (SR) of 1.4-1.6, and 2-15 micrometer of a layer thickness.
4. A packaging material for paper containers according to Claim 1 wherein the adhesive thermoplastic material layer between the paper substrate layer and the barrier layer contains at least a linear low density polyethylene which has a narrow molecular weight distribution, and has the properties parameter of an average density of 0.890-0.925, 88-103-degree C of a peak melting point, a melt flow index of 10-20, a swelling ratio (SR) of 1.4-1.6, and 10-25 micrometer of a layer thickness.
5. A paper packaging container formed from a packaging material comprising constitution layers of at least a thermoplastic material outermost layer, a paper substrate layer, a barrier layer, and a thermoplastic material innermost layer and consisting the constitution layers laminated in above order, characterized in that the thermoplastic material innermost layer contains at least a linear low density

polyethylene which has a narrow molecular weight distribution and has properties parameters of an average density of 0.900-0.915, 88-103-degree C of a peak melting point, a melt flow index of 5-20, a swelling ratio (SR) of 1.4-1.6, and 20-50 micrometer of a layer thickness,

a strip tape covers a discontinuous section of the thermoplastic material innermost layer between two edges of the packaging material in liquid tight, and

at least a sealing-surface layer of the strip tap contains a linear low density polyethylene which has a narrow molecular weight distribution and has properties parameters of an average density of 0.900-0.915, 88-103-degree C of a peak melting point, a melt flow index of 5-20, a swelling ratio (SR) of 1.4-1.6, and 20-100 micrometer of a layer thickness.

6. A paper packaging container formed from a packaging material comprising constitution layers of at least an outside thermoplastic material layer, a paper substrate layer, and an inside thermoplastic material layer, characterized in that the inside thermoplastic material layer contains at least a linear low density polyethylene, and has properties parameters of an average density of 0.910-0.930, a peak melting point of 115 degrees C or more by the differential scanning calorimetry, a melt flow index of 5-15, and a swelling ratio of 1.3-1.8.